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## (54) Keyless motor vehicle entry and ignition system

(57) A keyless control system (10) is disclosed which may be employed to gain entry to a motor vehicle and start an engine. When using this system, a user activates a remote control (12) by selecting a function for the motor vehicle to perform. In response, a challenge number is exchanged and used in an encryption algorithm by both the remote control (12) and a control circuit (14) in the motor vehicle to produce independently of each other separate algorithm answers. A first verification indication is produced when the control circuit (14) finds both answers to be the same. The remote

control (12) also sends its unique remote control identification and a designation of the selected function to the control circuit (14). If the received remote control identification matches is on an authorized remote control list stored in the control circuit, a second verification indication is produced. When both the first and second verification indications are produced, the control circuit issues a signal that causes the motor vehicle to perform the selected function.

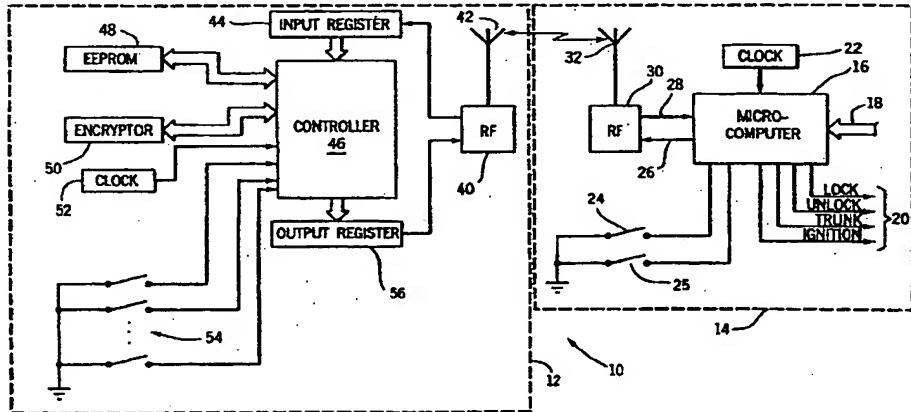


FIG. 1



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## EUROPEAN SEARCH REPORT

Application Number

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The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
THE HAGUE	23 February 2001	Buron, E	
CATEGORY OF CITED DOCUMENTS			
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## EUROPEAN SEARCH REPORT

Application Number  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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